



QY 142 aLeuGlyAspSerThrThrMetAspPheValAlaIleuValPheLeuAsnLeuAspPheTr 162
 Db 997 CCACAAACATCTGGTAAATTTATGCAAAATGATTTG- 1046
 QY 162 pAlaLysMetAsnIleuValAlaVal 170
 Db 1047 ---AAATCAAAATACAGAGTTTTC 1057

RESULT 15
 US-09-897-778-368
 : Sequence 368, Application US/09897778
 : Patent No. US20020147143A1
 : GENERAL INFORMATION:
 : APPLICANT: Wang, Tonglong
 : APPLICANT: Marnerakis, Margarita
 : APPLICANT: Fanger, Gary R.
 : APPLICANT: Vedvick, Thomas S.
 : APPLICANT: Carter, Patrick
 : APPLICANT: Watanabe, Yoshihiro
 : APPLICANT: Henderson, Robert A.
 : APPLICANT: Peckham, David W.
 : APPLICANT: Fanger, Neil
 : TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
 : OF LUNG CANCER
 : FILE REFERENCE: 210121.455C16
 : CURRENT APPLICATION NUMBER: US/09/897,778
 : CURRENT FILING DATE: 2001-06-28
 : NUMBER OF SEQ ID NOS: 467
 : SOFTWARE: FASTSEQ for Windows Version 4.0
 : SEQ ID NO 368
 : LENGTH: 2443
 : TYPE: DNA
 : ORGANISM: Homo sapiens
 US-09-897-778-368

Alignment Scores:
 Pred. No.: 0.401 Length: 2443
 Score: 93.50 Matches: 54
 Percent Similarity: 35.41% Conservative: 21
 Best Local Similarity: 25.46% Mismatches: 81
 Query Match: 5.73% Indels: 54
 DB: 10 Gaps: 9

US-09-889-592-2 (1-400) x US-09-897-778-368 (1-2443)

QY 2 ArgHisMetGlnSerValThrArg-----AlaSerSerIleGlyGlySer 16
 Db 475 CAACATTTCCACAAACACACACACACACATAGCTAGTAGCAATTAAGTCTGTCATCTT 534
 QY 17 GlyValLysGlnValIleGlyLysGlyHisProHisAlaArgValValIleValAlaArgLys 36
 Db 545 GGA---GAGCATTTAGAGGGGTAAACACACCCAGACACACGGGCACTGAGAGCTCAGAAA 591
 QY 37 AlaGln-----IleProGln 41
 Db 592 TTGATGAAATATTTTAATGAGTTTCTATGATGAGAAATTGAAATCTGATGTTTTTACAAAT 651
 QY 42 ArgGlnLeuLeuSerValLysProLysMetValArgAsnThrHisLeuAsnLeuGln - 60
 Db 652 TCCTCAAAACATAAAGCAATAGACAGACATTCACAGAACTTGCACATTAATTCCTCAACAG 711
 QY 61 ---ProGlnGlnArg-----GlnAlaPheTyrArgLeuLeu 71
 Db 712 TTACCTTTTGTATAGATTTTTCAGAAATTAATTCGAAATTTGCAATATATATCATGATTTA 771
 QY 72 GlnAsnGlnGlnIleGlnIlePheLeuSerMetAspSerCysLeuA:q:leSerAspLys 91
 Db 772 GAATGCCAGCTATTACAGAGTTTACAGCTGCTCAAGACAGAGTGAATCTCCAGATG 831
 QY 92 TyrLeuIleAlaMetValLeuAlaTyrPheLys-----ArgAlaAlaGlyLeuTyr 108
 Db 832 ACAGAGTAGCAGCAGCTTTTACTTCATTTTAAAGGCTTATTCCTCCATTCCTGTCAGTTTAT 891

QY 109 ThrSerGlnTyrThrThrMetAspPheValAlaIleuValPheLeuAsnLeuAspPheTr 129
 Db 892 ATAAAGATGAGGAGAGAG- GAGGATATATTCGAAATGATATATTT 946
 QY 129 GlnAspGlnGln-----AspTyrGlySerTyrGlnIleGlnPheTrAla 142
 Db 947 GAATCATCTCTGCAATATCTCTCTCAACAGAGTCAATCAAACTTCCATATATCTTCACTAA 999
 QY 142 aLeuGlyAspSerThrArgGlnLeuPheProGlnPheLeuAlaLeuAlaAspPheTr 162
 Db 997 CCACAAACATCTGGTAAATTTATGCAAAATGATTTG- 1046
 QY 162 pAlaLysMetAsnIleuValAlaVal 170
 Db 1047 ---AAATCAAAATACAGAGTTTTC 1057

Search completed: January 10, 2003, 15:52:12
 Job time : 86 secs

US-09-889-592-2 (1-300) x US-09-425-453A (1-2343)

QY 2 ArgHisMetGlnSerValThrArg-----AlaSerSerIleCysGlySer 16
 Db 475 CACATTCACCAACAGCTAGACAGACATACCTAGTACGTAACATAACAGCTGACACCT 534
 QY 17 GlyValIysGlnValIleGlyIysCysIleHisProHisValIleValIleValIle 36
 Db 535 GGA---GACGAGTAAAGAGAGATTAACACACACACACACACACACACACACAC 591
 QY 37 AlaGln-----ProProGlu 41
 Db 592 TGCATCAAAATACATTTAATGAGTTTTCATGACGAGCAATTCAGATTCATTTTACAAAT 651
 QY 42 ArgGlnGlnLeuSerValIysProGlyMetValAspGlnThrHisLeuAsnLeuGln 60
 Db 652 TGTCAAAAGATAAAGACACACACACATTCACCAACTTCGACCTAATTCCTCAAGAG 711
 QY 61 ---ProGlnGluArg-----GlnAlaPheTyrArgLeuLeu 71
 Db 712 TTACTTTTTCATGATTTTCACCTTAATGCAAAATTCGAAATTAATTAATTAATTA 771
 QY 72 GlnAsnGlnGlnIleGlnIleGlnIleGlnIleGlnIleGlnIleGlnIleGlnIle 91
 Db 772 GAAGGACAGCTGACCTGACAGAGTTTACAGCTGCTCAAGACAGAGAGAGAGAGAG 831
 QY 92 TyrLeuIleAlaMetValLeuAlaTyrPheLys-----ArgAlaAlaGlyLeuTyr 108
 Db 832 AGACAGCTACACACAGCTTTTACTTACTTATTTTAAAGCTTATTCATATTCATCTTAT 891
 QY 109 ThrSerGlnTyrThrThrMetAsnIlePheValAlaIleGlyTyrAlaAspMetCys 128
 Db 892 ATAAAGATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 936
 QY 129 GluAspGlnGln-----AspTyrIlyIysGlnIlePheProPheAl 142
 Db 937 GAACAGCTGCGAAT 996
 QY 142 aLeuGlyAspSerTrpArgGlnLeuPheProGlnPheLeuAlaLeuAlaAspAspPheTr 162
 Db 997 CCACAAACAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1036
 QY 162 PAlaIysMetAsnIlyTrpAlaIysAl 170
 Db 1037 ---AAATCAAACTATAGAGTTTTC 1057

RESULT 2

US-09-425-453A-1
 : Sequence 1, Application US/09425453A
 : Patent No. 6468793
 : GENERAL INFORMATION:
 : APPLICANT: Teem, John L.
 : TITLE OF INVENTION: CTR Genes and Proteins for Cystic Fibrosis Gene Therapy
 : FILE REFERENCE: FSD-99X01
 : CURRENT APPLICATION NUMBER: US/09/425,453A
 : CURRENT FILING DATE: 1999-10-22
 : PRIOR APPLICATION NUMBER: 60/105,444
 : PRIOR FILING DATE: 1998-10-23
 : NUMBER OF SEQ ID NOS: 20
 : SOFTWARE: Patent In Ver. 2.0
 : SEQ ID NO 1
 : LENGTH: 4443
 : TYPE: DNA
 : ORGANISM: Homo sapiens
 : FEATURE:
 : NAME/KEY: gene
 : LOCATION: (1)-(4443)
 : US-09-425-453A-1

Alignment Scores:

Prod. No.: 6,12 Length: 4443
 Score: 86.50 Matches: 48

Percent Similarity: 39.04% Conservatives: 41
 Best Local Similarity: 21.05% Mismatches: 79
 Query Match: 5.30% Indels: 60
 DB: 4 Gaps: 10

US-09-889-592-2 (1-200) x US-09-425-453A (1-4443)

QY 9 ArgAlaSerSerIleCysGlySerValIysGlnValIle 23
 Db 658 CAGGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 217
 QY 24 LysClyHisProHisValIleGlyIysCysIleHisProHisValIleValIleValIle 43
 Db 718 CTACGACGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 774
 QY 44 GluGlnSerValIysProGlyMetValAspGlnThrHisLeuAsnLeuGln 63
 Db 775 ---CTTCTGATTCAGCTGACAAATGATTCAGAAATATTCATTAAGAGATTCCTG 831
 QY 64 ArgGlnAlaPheTyrArgLeuLeuGlnIleGlnIleGlnIleGlnIleGlnIleGln 83
 Db 842 GAAGAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 896
 QY 84 SerCysLeuAlaIleSerAspIlyIysTyrLeuIleAlaMetValLeuAlaTyrPheLysArg 103
 Db 877 ---CTGAAATTCAGCTGCAAG---GAGAGTATGATGATGATGATGATGATGAT 921
 QY 104 AlaAlaGlyLeuTyrThr 109
 Db 922 TACGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 981
 QY 110 SerGlnTyrThrThrMetAsnIlePheValAlaIleGlyTyrAlaAspMetCys 122
 Db 962 ATCAAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1041
 QY 123 LeuAlaAsnAspMetGlnGlnAspIleGlnAspIlyIysTyrGlnIlePheProPheAla 142
 Db 1042 ATGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1071
 QY 143 LeuGlyAspSerTrpArgGlnLeuPheProGlnPheLeuAlaLeuAlaAspAspPheTr 162
 Db 1072 GTA CAACACGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1125
 QY 163 AlaIysMetAsnIlyTrpAlaIysAlValSerArgAlaCysCysAspIleValMetSerIys 182
 Db 1126 CAAAGCAAGAAATATAGAGATTCGAAATATAGATTCGAAATATAGATTCGAAAT 1185
 QY 183 AspProThrHisIlePalaTyrPheLeuAspAspIleProMetHisHisSerGlyAlaMetAla 202
 Db 1186 AATGAAATAGCTTTC---TGGAGAGAGAGAA 1218
 QY 202 gGlyTyrLeuAlaGlnGlnArg 209
 Db 1219 GAAATATTCAGCAAAATCAAAAT 1240

RESULT 3

US-09-425-453A-1
 : Sequence 3, Application US/09425453A
 : Patent No. 6468793
 : GENERAL INFORMATION:
 : APPLICANT: Teem, John L.
 : TITLE OF INVENTION: CTR Genes and Proteins for Cystic Fibrosis Gene Therapy
 : FILE REFERENCE: FSD-99X01
 : CURRENT APPLICATION NUMBER: US/09/425,453A
 : CURRENT FILING DATE: 1999-10-22
 : PRIOR APPLICATION NUMBER: 60/105,444
 : PRIOR FILING DATE: 1998-10-23
 : NUMBER OF SEQ ID NOS: 20
 : SOFTWARE: Patent In Ver. 2.0
 : SEQ ID NO 4
 : LENGTH: 4443
 : TYPE: DNA
 : ORGANISM: Homo sapiens

[illegible]

```

RESULT 9
US-09-425-453A-15
: Sequence 15, Application: US-09425453A
: Patent No. 6468794
: GENERAL INFORMATION
: APPLICANT: Icom, John L.
: TITLE OF INVENTION: CTR Genes and Proteins for Cystic Fibrosis Gene Therapy
: FILE REFERENCE: FSO-99XC1
: CURRENT APPLICATION NUMBER: US-09/425,453A
: CURRENT FILING DATE: 1999-10-22
: PRIOR APPLICATION NUMBER: 60/2195,444
: PRIOR FILING DATE: 1998-10-23
: NUMBER OF SEQ ID NOS: 20
: SOFTWARE: Patent In Ver. 2.0
: SEQ ID NO 15
: LENGTH: 4443
: TYPE: DNA
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: gene
: LOCATION: (1)..(4443)
US-09-425-453A-15

```

Alignment Scores:			
Prod. No.:	6, 12	Length:	4444
Score:	86.50	Matches:	48
Percent Similarity:	39.40%	Conservative:	41
Best Local Similarity:	21.05%	Mismatches:	79
Query Match:	5.40%	Indels:	60
DB:	4	Gaps:	10
US 09-889, 592, 2 (1-300)	X	US 09-425, 453A-15 (1-444)	

[illegible][illegible]

```

RESULT 10
US-09-425,454A-17
; Sequence 17, Application: US-2004,254,56A
; Patent No. 6468794
; GENERAL INFORMATION:
; APPLICANT: Icom, John, L.
; TITLE OF INVENTION: CTR Genes and Proteins for Cystic Fibrosis Gene Therapy
; FILE REFERENCE: FSU 94XC1
; CURRENT APPLICATION NUMBER: US-09-425,454A
; CURRENT FILING DATE: 1999 10 22
; PRIOR APPLICATION NUMBER: 60/105,444
; PRIOR FILING DATE: 1998 10 24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: Patent In, Ver. 2.0

```

```

; SEQ ID No 17
; LENGTH: 4443
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-425-453A.17

Alignment Scores:
Pred. No.:      6, 12
Score:          46, 50
Percent Similarity: 49.04%
Best Local Similarity: 21.05%
Query Match:    5, 40%
DB:             4
Length:         4443
Matches:        48
Conservative:   41
Mismatch:       79
Indels:         60
Gaps:          10
US-09-489-542.2 (100) x US-09-425-453A.17 (14443)

```

QY	9	ArcAlaSerSsrIleCysGlySerGlyValLysGlnValIle		Gly 74
D8	658	CAGGGATCTGGCTTGTGGAACTGGCTTTTCAGAGCGTGGCTTTTCAGAGCGG		
QY	24	LysGlyHisProHisAsnArgvalValGlyValArgLysAlaGlnTrpProGluArgGlu 48		
D8	718	CTAGGGAAGAATCATGAGAACACAGCAATACAGAGCTGGAGAGCATAGCGAANA		
QY	44	GlnLeqSerValLysProLysMetValArgAsnThrHisLeqAsnLeqGlnProGlnGln 68		
D8	775	CTTGCACTACCTCCAGAAACAATCAAAAATACTAAATCTTAAGGCATACTCTGGCT		
QY	64	ArgGlnAlaPheTyrArgLeqLeqGlnAlaGlnGlnIleGlnGlnLeqSerMetAsp 88		

23-AUG-2000: 2000US-064547.
(HYSE-) HYSEQ INC.
Drmauer RT, Liu C, Tuna YT;
WPI: 2001-639362/73
P-PSDB: ABC21399.
New isolated polynucleotide and related polypeptides, useful in
diagnostics, forensics, gene mapping, identification of mutations
responsible for genetic disorders or other traits and to assess
biodiversity.
Claim 1: SEQ ID No 2390; 104 : English.
The invention relates to isolated polynucleotide (I) and
polypeptide (II) sequences, (I) is useful as hybridisation probes,
polynucleotide chain reaction (PCR) primers, flanking, and for chromosome
and gene mapping, and in recombinant production of (II). The
polynucleotides are also used in diagnostics as expressed sequence tags
for identifying expressed genes. (I) is useful in gene therapy techniques
to restore normal activity of (II) in a diseased state involving
(II). (II) is useful for generating antibodies against it, detecting or
quantitating a polypeptide in tissue as molecular weight markers and as
a food supplement. (II) and its binding partners are useful in medical
imaging of sites expressing (II). (I) and (II) are useful for treating
disorders involving abnormal gene expression or loss of activity.
The polypeptide and polynucleotide sequences have applications in
diagnostics, forensics, gene mapping, identification of mutations
responsible for genetic disorders or other traits to assess biodiversity
and to produce other types of data and products dependent on DNA and
amino acid sequences. AAS4416) AAS44564 represent novel human
diagnostic coding sequences of the invention.
Note: The sequence data for this patent did not appear in the printed
specification, but was obtained in electronic format directly from WIPO
at <http://wipo.int/pub/published/pdb/seqsequences>.
Sequence 1422 BP: 313 A: 453 : 853; 214 T; 0 other;

[illegible][illegible]

Search completed: January 19, 2003, 14:25:30
 Job Line : 247 secs



